



CLC status

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Summary



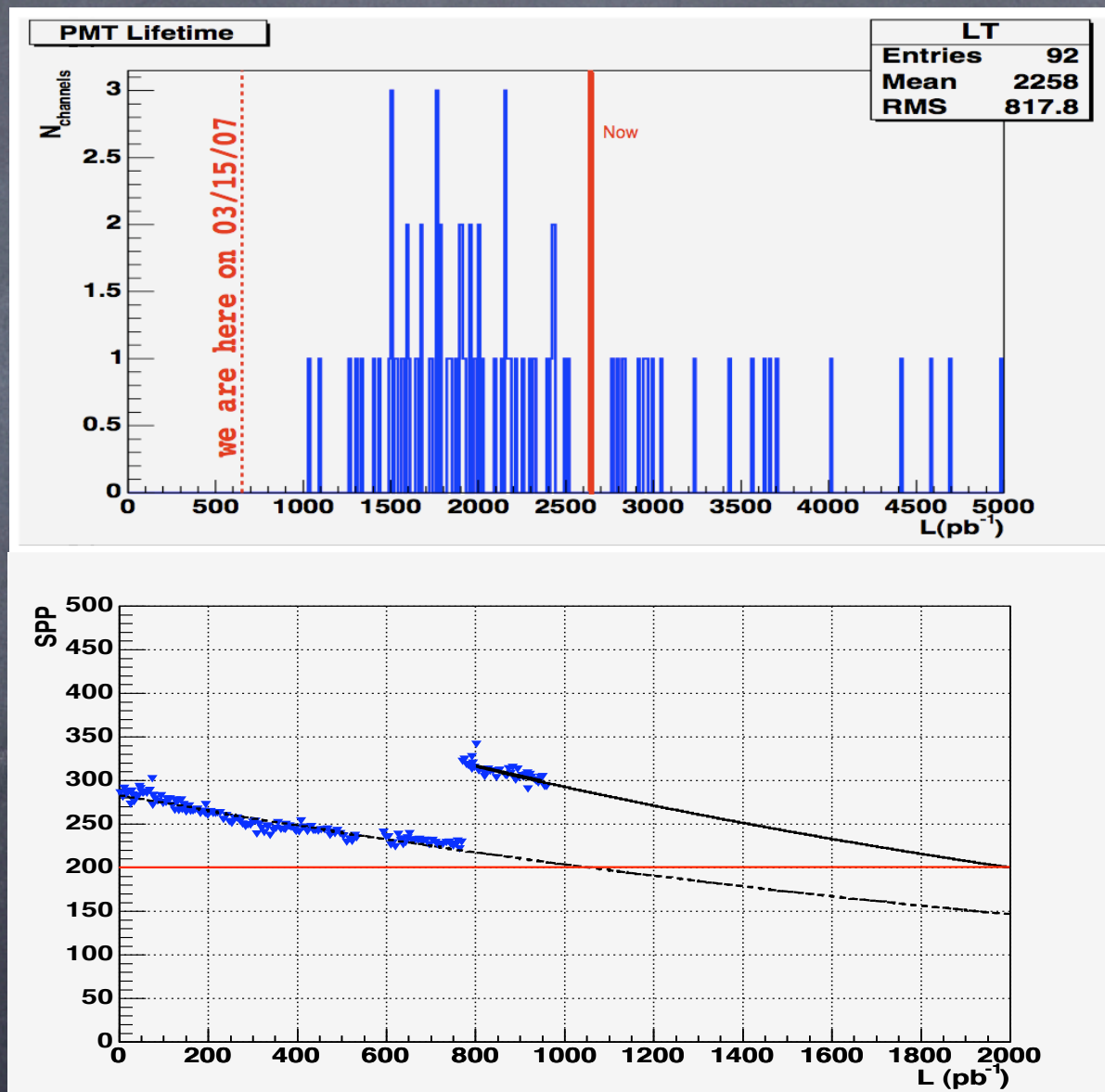
- Extended PMT's lifetime
- CLC cross-sections
- Plans for shut down
- Usual CLC vs COT linearity check



PMT's lifetime



- Upper plot presented in March 2003
- Suggests:
 - Start replacing PMT's in 0.5/fb
 - Most PMT's are dead in 2/fb
- Instead we increased HV and prolonged PMT's lifetime
- Saved many \$'s



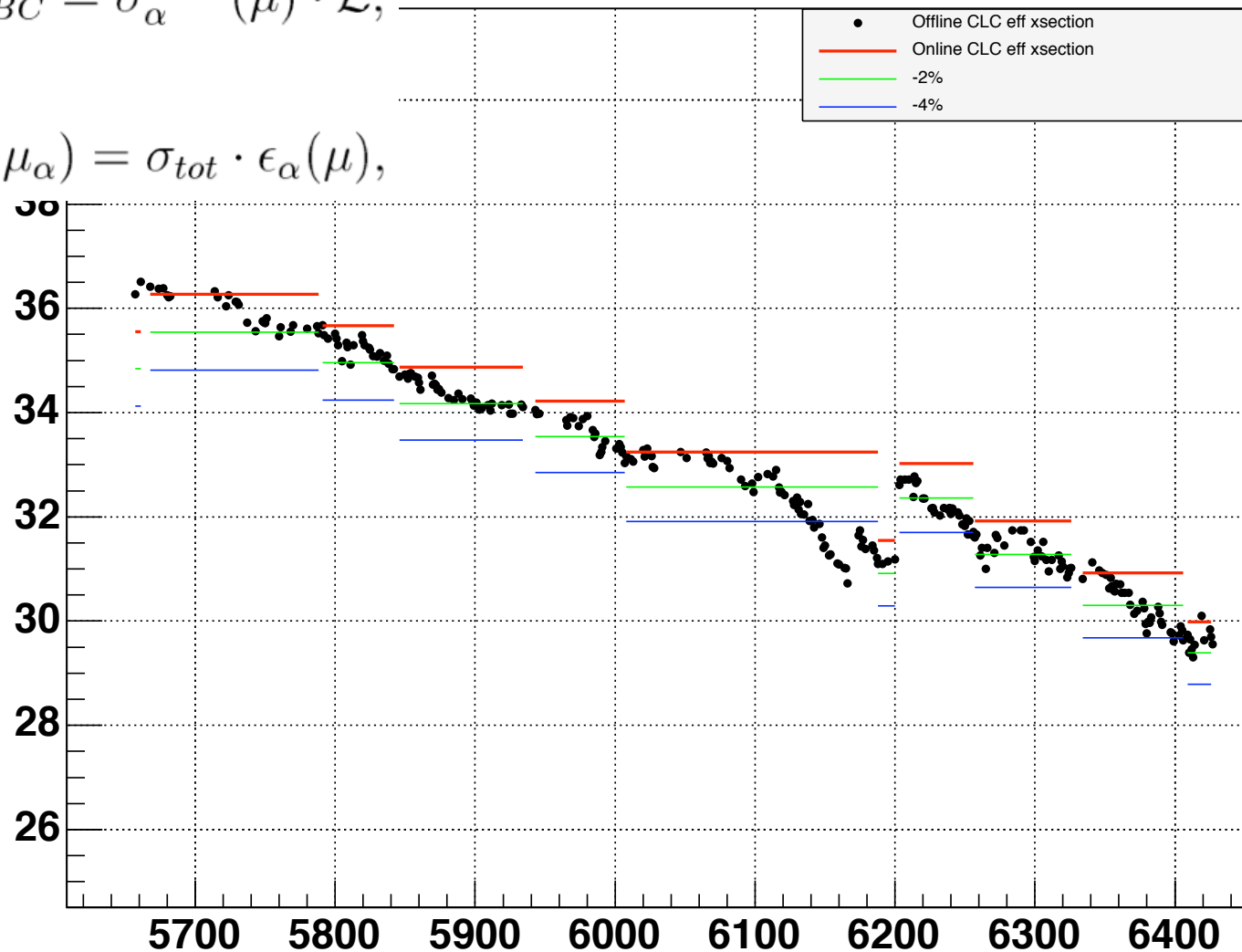


CLC xsection changes



$$\mu_{\alpha} \cdot f_{BC} = \sigma_{\alpha}^{CLC}(\mu) \cdot \mathcal{L},$$

$$\sigma_{\alpha}^{CLC}(\mu_{\alpha}) = \sigma_{tot} \cdot \epsilon_{\alpha}(\mu),$$



Store #



Plans for Shut Down



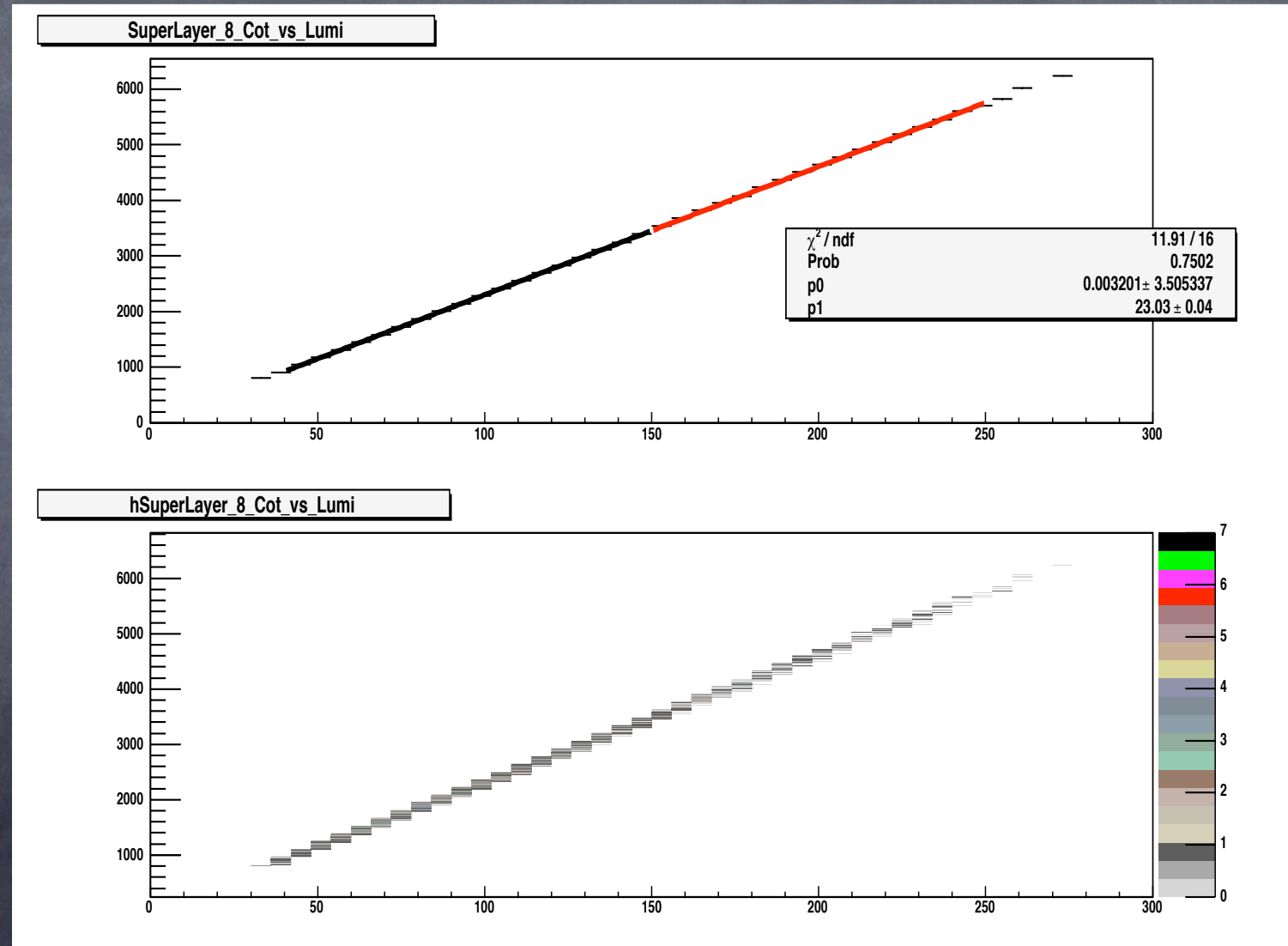
- Replace all the PMT's with the new ones.
- Out of 44 bases we replaced so far, none have shown any problems
- Need to replace 3 more bases from the old batch



COT vs CLC before



- Data collected in 08/18/08-09/18/08
- X axes \rightarrow Lum
- Y axes \rightarrow SL8 current
- Fit up to 150E30. Extrapolation to guide the eye.





COT vs CLC before



- X axes \rightarrow Lum
- Y axes \rightarrow SL8/Lum. Full range is $\pm 4.2\%$, the CDF lum uncertainty.

